UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/074,293	02/12/2002	Harry Contopanagos	BP2108	4912	
	7590 03/31/201 RRISON & MARKISO		EXAM	IINER	
P.O. BOX 160727 AUSTIN, TX 78716-0727			ANDUJAR, I	ANDUJAR, LEONARDO	
AUSTIN, IX /	8/10-0/2/		ART UNIT PAPER NUMBER		
			2826		
			NOTIFICATION DATE	DELIVERY MODE	
			03/31/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

MMURDOCK@TEXASPATENTS.COM SMCWHINNIE@TEXASPATENTS.COM

	Application No.	Applicant(s)		
	10/074,293	CONTOPANAGOS	CONTOPANAGOS ET AL.	
Office Action Summary	Examiner	Art Unit		
	Leonardo Andújar	2826		
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with	n the correspondence add	dress	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutorical Failure to reply within the set or extended period for reply will, by statuted Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC. .136(a). In no event, however, may a report will apply and will expire SIX (6) MONT te, cause the application to become ABA	ATION. Only be timely filed HS from the mailing date of this control (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>25 F</u> This action is FINAL . 2b) ☑ This action for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matte	· •	merits is	
Disposition of Claims				
4) ☐ Claim(s) 1-3 and 9 is/are pending in the appli 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 and 9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.			
Application Papers				
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to be e drawing(s) be held in abeyand ction is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CF		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document * See the attached detailed Office action for a list 	nts have been received. nts have been received in Ap ority documents have been r au (PCT Rule 17.2(a)).	plication No eceived in this National S	Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		mmary (PTO-413) Mail Date		

Application/Control Number: 10/074,293 Page 2

Art Unit: 2826

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/10/2010 has been entered.

Claim Rejections - 35 USC § 102

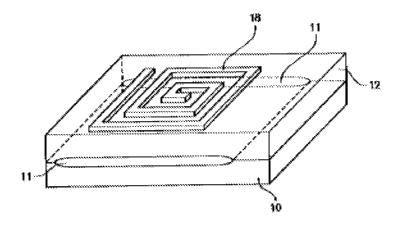
2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 9 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Chen (US 6,057,202).
- 4. Regarding claim 9, Chen (e.g. fig. 1) teaches an on-chip inductor consisting of: a dielectric layer 12; a conductive winding 18 on the at least one dielectric layer; and a field oxide layer 11 having a major surface parallel to a major surface of the dielectric layer, and a substrate 10 having a major surface parallel to the major surface of the dielectric layer (col. 1/lls. 5-23).

Application/Control Number: 10/074,293 Page 3

Art Unit: 2826

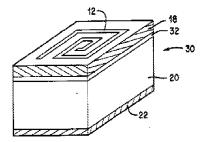


Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-3 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grzegorek et al. (US 5,760,456) in view of Zhu et al. (US 6,133,079).
- 7. Regarding claims 1 and 3, Grzegorek (e.g. figs. 3) teaches an on chip inductor consisting of a dielectric layer 18; a conductive spiral winding 12 on the dielectric layer; a heavy doped well 32 having a major surface parallel to a major surface of the dielectric layer and a substrate 20/22 having a major surface parallel to the major surface of the dielectric layer (see abstract). Grzegorek does not teach that the well is a p well.

Application/Control Number: 10/074,293

Art Unit: 2826



However, Zhu (e.g. fig. 4) teaches an inductor 60 formed over a heavy doped well 28 which is a p well. It would have been obvious to one of ordinary skills in the art to make the heavy doped well of Grzegorek as a p type well because the use of a particular known technique was recognized as part of the ordinary capabilities of one skilled in the art and because a person of ordinary skill has a good reason to pursue the known option within his or her technical grasp (see KSR International Co. v. Tleflex Inc., 550 U.S.-,82 USPQ2d 1385 (2007). In this case, the only two available options are p well and n well.

8. Regarding claims 2 and 9, Grzegorek (e.g. figs. 3) teaches an on chip inductor consisting of a dielectric layer 18; a conductive winding 12 on the dielectric layer; a heavy doped well 32 having a major surface parallel to a major surface of the dielectric layer and a substrate 20/22 having a major surface parallel to the major surface of the dielectric layer (see abstract). Grzegorek does not teach that the well is a p well or a field oxide having a major surface that is juxtaposed to the major surface of the well. However, Zhu (e.g. fig. 4) teaches an inductor 60 formed over a heavy doped well 28 which is a p well and a field oxide 50 having a major surface that is juxtaposed to the major surface of the well. It would have been obvious to one of ordinary skills in the art to make the heavy doped well of Grzegorek as a p type well and a field oxide having a

major surface that is juxtaposed to the major surface of the well as disclosed by Zhu because the use of a particular known technique was recognized as part of the ordinary capabilities of one skilled in the art and because a person of ordinary skill has a good reason to pursue the known option within his or her technical grasp (see KSR International Co. v. Tleflex Inc., 550 U.S.-,82 USPQ2d 1385 (2007). In this case, the only two available options are p well and n well. Moreover, FOXs are conventionally used to isolate the plural devices which are inherently present in the substrate (col. 1/lls. 10-20)

Response to Arguments

9. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonardo Andújar whose telephone number is 571-272-1912. The examiner can normally be reached on Mon through Thu from 9:00 AM to 7:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on 571-272-1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/074,293 Page 6

Art Unit: 2826

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Leonardo Andújar/ Primary Examiner, Art Unit 2826